

SCOPE NOTES:

- THE FIRE PROTECTION SCOPE OF WORK INCLUDES WET AND DRY SPRINKLER SYSTEMS FOR THE NEW AIR CARGO BUILDING C. THE FACILITY IS DESIGNED TO BE FULLY SPRINKLED PER BUILDING AND FIRE CODE REQUIREMENTS. THE SCOPE INCLUDES FIT-UP FOR A FUNCTIONAL GENERAL WAREHOUSE WITH COMMODITY AND RACK-STORAGE HEIGHT LIMITS AND ASSOCIATED SHELL OFFICE AREAS. ADDITIONAL OFFICE SPACE FOR THE DOA RAMP OFFICE IS DESIGNED TO BE FIT-OUT AS REQUIRED BY THE END-USER. FACILITY DESCRIPTION:
- THE MAIN OPERATIONS AREA OF THE FACILITY IS AN APPROXIMATELY 100,000 FT² WAREHOUSE WITH A 19,800 FT² MEZZANINE, A TWO-STORY ATTACHED 5,800 FT² OFFICE AND RECEPTION STRUCTURE, AND A TWO-STORY ATTACHED 2,400 FT² RAMP OPERATIONS OFFICE.
- THIS FACILITY IS SIMILAR IN SIZE, LAYOUT, AND FUNCTION TO THE EXISTING AIR CARGO BUILDINGS A, B, AND D.
- THE FACILITY IS CURRENTLY EXPECTED TO HAVE A SINGLE TENANT.
- THE FACILITY IS BEING DESIGNED AND BUILT AS A SPECULATIVE WAREHOUSE WITHOUT A SPECIFIC TENANT.
- THE WAREHOUSE IS A HIGH-BAY AREA WITH A MAXIMUM CEILING/ROOF HEIGHT OF 42'-8" AND A 1:12 SLOPE THAT COULD ALLOW A MAXIMUM STORAGE HEIGHT OF 35 FEET.
- WAREHOUSE SPRINKLER SYSTEM DESIGN: THE SPRINKLER SYSTEM SHOULD PROVIDE GENERAL STORAGE PROTECTION AND BE DESIGNED TO MAXIMIZE THE DESIGN DENSITY IN THE WAREHOUSE BASED ON THE EXISTING WATER SUPPLY WITHOUT THE AID OF A FIRE PUMP. THE ULTIMATE TENANT MAY NEED TO UPGRADE ONE OR MORE OF THE WAREHOUSE SPRINKLER ZONES BASED ON THE CLASSIFICATION OF THEIR ANTICIPATED COMMODITIES, THE QUANTITY OF THE COMMODITIES, THE STORAGE CONFIGURATION, THE MAXIMUM WAREHOUSE CEILING/ROOF HEIGHT, AND THE MAXIMUM STORAGE HEIGHT.
- WAREHOUSE COMMODITIES: PER NFPA 13-2010, §5.6.1.2 MIXED COMMODITIES, THE PROTECTION OF A FIRE AREA SHALL NOT BE BASED ON THE OVERALL COMMODITY MIX BUT BY THE REQUIREMENTS FOR THE HIGHEST CLASSIFIED COMMODITY AND STORAGE ARRANGEMENT UNLESS CERTAIN REQUIREMENTS THAT LIMIT THE QUANTITY AND DISPERSION OF HIGHER HAZARD COMMODITIES ARE MET AND ENFORCED.
- WAREHOUSE HAZARD CLASSIFICATION: PER NFPA 13-2010, §13.2.1 (5), COMMODITIES STORED TO HEIGHTS OF 12 FT. OR LESS AND PER §13.2.1 (6), GROUP A PLASTICS STORED HEIGHTS OF 5 FT. OR LESS MAY BE PROTECTED AS MISCELLANEOUS STORAGE. SELECTION OF THE EXTRA HAZARD GROUP 1 DESIGN CURVE FROM CHAPTER 13 WILL COVER CLASS I THROUGH CLASS IV COMMODITY CLASSIFICATIONS AND GROUP A PLASTICS WITH NO LIMITATION ON CEILING HEIGHT. THE EXTRA HAZARD GROUP 1 DESIGN CURVE WILL REQUIRE A DESIGN DENSITY OF 0.30 GPM OF WATER OVER A 2500 FT² FIRE AREA WITH A TOTAL INSIDE/OUTSIDE HOSE STREAM OF 500 GPM. BASED ON THIS CRITERION, THE WATER MAIN WOULD BE REQUIRED TO DELIVER APPROXIMATELY 1,400 GPM. THE SPRINKLER CONTRACTOR MAY PROVIDE A LOOPED OR GRIDDED SYSTEM.
- GENERAL HAZARD CLASSIFICATIONS AND PROTECTION:
THE LOADING DOCK AREA UNDER THE MEZZANINE WILL BE PROTECTED AS AN ORDINARY HAZARD GROUP 2 CLASSIFICATION PER NFPA 13-2010. THE DESIGN DENSITY/AREA WILL BE 0.20 GPM OF WATER OVER A 1,500 FT² AREA.

THE MAIN OFFICE, THE DOA RAMP OFFICE, AND THE MEZZANINE ARE LIGHT HAZARD CLASSIFICATIONS WITH INCIDENTAL ORDINARY HAZARD GROUP 1 STORAGE AREAS. THE DENSITY DESIGN/AREA WILL BE 0.10 GPM OF WATER OVER A 1,500 FT² AREA.

THE ELECTRICAL ROOMS IN THE MAIN OFFICE AND THE RAMP OPERATIONS OFFICE WILL NOT BE PROTECTED BY THE SPRINKLER SYSTEM UNDER THE EXCEPTIONS ALLOWED FOR IN NFPA 13-2010, §8.15.10.3.

THE ELEVATOR MACHINE ROOMS IN THE MAIN OFFICE AND THE RAMP OPERATIONS OFFICE WILL BE PROTECTED BY THE SPRINKLER SYSTEM PER NFPA 13-2010, §8.15.5. AN INLINE WATER FLOW SWITCH WILL BE INSTALLED TO DE-ENERGIZE THE ELEVATOR EQUIPMENT UPON ACTIVATION OF THE SPRINKLER IN THE ROOM. SIDEWALL SPRAY SPRINKLERS WILL BE INSTALLED AT THE BOTTOM OF EACH ELEVATOR HOISTWAY.

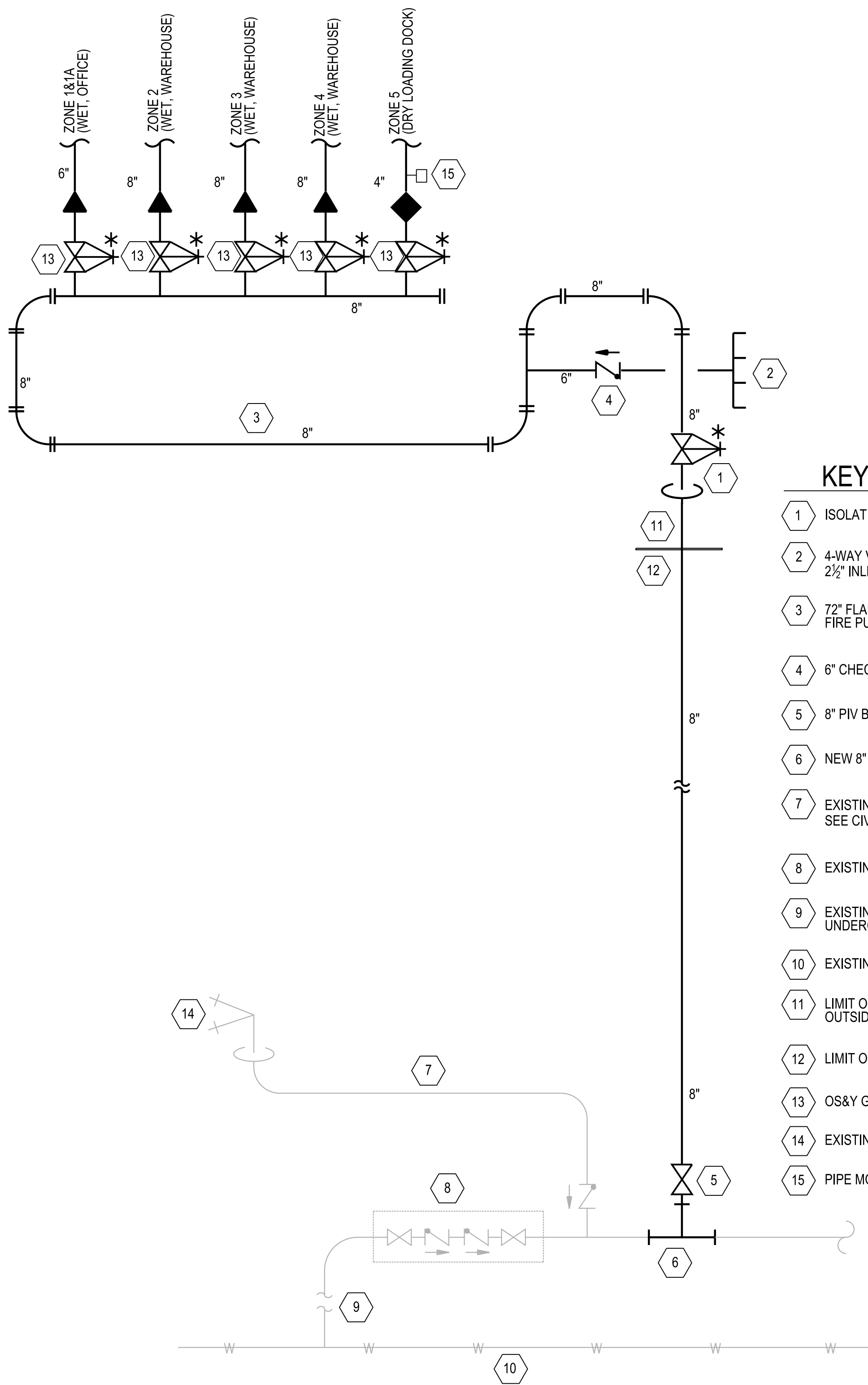
- SPRINKLER ZONES: THE AIR CARGO FACILITY IS DIVIDED INTO FIVE SPRINKLER ZONES SIMILAR TO THE EXISTING AIR CARGO FACILITIES. THE ZONE SIZES MEET THE REQUIREMENTS OF NFPA 13-2010.

ZONE #1 WILL BE A WET SPRINKLER SYSTEM THAT WILL PROVIDE PROTECTION TO THE MAIN OFFICE AND THE MEZZANINE AREAS. THE SPRINKLER PIPING WILL BE ARRANGED FOR A TREE SYSTEM. THE WET ALARM CHECK VALVE WILL BE LOCATED IN THE MAIN OFFICE MECHANICAL SPACE. ZONE #1 WILL ALSO SERVE THE AREA BENEATH THE MEZZANINE AT THE LOADING DOCK AND A SPRINKLER LINE FROM ZONE #1 WILL BE EXTENDED DOWN THE CATWALK TO THE DOA RAMP OFFICE FOR PROTECTION OF THIS SPACE AS ZONE #1A. A FLOW SWITCH WILL BE INSTALLED IN THIS LINE AT THE DOA RAMP OFFICE AND CONNECTED TO THE FIRE ALARM PANEL.

THE WAREHOUSE AREA WILL BE DIVIDED INTO THREE WET ZONES. THE MAXIMUM AREA OF PROTECTION PER ZONE WILL BE LESS THAN 40,000 SQ. FT. BASED ON THE HAZARD CLASSIFICATION. ZONE #2 AND ZONE #4 WILL COVER 4 BAY WIDTHS. ZONE #3 WILL COVER 5 BAY WIDTHS. THE THREE ZONES WILL COVER THE WAREHOUSE CEILING. THE SPRINKLER PIPING MAY BE ARRANGED AS A TREE OR GRID SYSTEM. THE WET ALARM CHECK VALVES WILL BE LOCATED IN THE OFFICE MECHANICAL ROOM.

ZONE #5 WILL BE A DRY SPRINKLER SYSTEM THAT WILL PROVIDE PROTECTION TO THE LOADING DOCK OVERHANG. THE SPRINKLER PIPING WILL BE ARRANGED FOR A TREE SYSTEM. THE DRY VALVE WILL BE LOCATED IN THE MAIN OFFICE MECHANICAL SPACE. THE DESIGN AREA WILL BE INCREASED 30% TO 1,500 FT² PER NFPA 13-2010.

- FIRE PUMP: BASED ON THE APRIL 25, 2013 WATER FLOW TEST DATA, A FIRE PUMP IS NOT ANTICIPATED FOR THE CURRENT DESIGN. AN AREA HAS BEEN SET ASIDE IN THE MECHANICAL ROOM FOR A FUTURE FIRE PUMP AND CONTROLLER.



1 WATER FIRE MAIN ENTRANCE SCHEMATIC
SCALE: NONE

FIRE PROTECTION CRITERIA:

OFFICE SPACE UNLESS NOTED OTHERWISE (WET PIPE SPRINKLER SYSTEM)

OCCUPANCY CLASSIFICATION: LIGHT HAZARD
DESIGN DENSITY: 0.10 GPM/SQ. FT.
HYDRAULIC REMOTE AREA (WET): 1,500 SQ. FT.
SPRINKLER K: 5.6
MAXIMUM COVERAGE/SPRINKLER: 225 SQ. FT.
OUTSIDE HOSE STREAM ALLOWANCE: 100 GPM

EQUIPMENT ROOMS, BUILDING MAINTENANCE/REPAIR AREAS, WORKROOMS, SHELL SPACE

OCCUPANCY CLASSIFICATION: ORDINARY HAZARD, GROUP 1
DESIGN DENSITY: 0.15 GPM/SQ. FT.
HYDRAULIC REMOTE AREA (WET): 1,500 SQ. FT.
SPRINKLER K: 5.6
MAXIMUM COVERAGE/SPRINKLER: 130 SQ. FT.
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM

STORAGE AREAS, RECEIVING AREAS, MECHANICAL ROOMS, UTILITY AREAS, STOCK ROOMS, RECORDS AREAS, FILE ROOMS, HOUSEKEEPING, RECYCLABLE & HAZARDOUS WASTE, MAIL ROOM, LOADING DOCK AREA UNDER MEZZANINE, & ALL AREAS REQUIRED BY NFPA 13.

OCCUPANCY CLASSIFICATION: ORDINARY HAZARD, GROUP 2
DESIGN DENSITY: 0.20 GPM/SQ. FT.
HYDRAULIC REMOTE AREA (WET): 1,500 SQ. FT.
SPRINKLER K: 5.6 OR 8.0
MAXIMUM COVERAGE/SPRINKLER: 130 SQ. FT.
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM

EXTERIOR LOADING DOCK OVERHANG (DRY PIPE SPRINKLER SYSTEM)

OCCUPANCY CLASSIFICATION: ORDINARY HAZARD, GROUP 1
DESIGN DENSITY: 0.20 GPM/SQ. FT.
HYDRAULIC REMOTE AREA (DRY): 1,950 SQ. FT.
SPRINKLER K: 5.6 OR 8.0
MAXIMUM COVERAGE/SPRINKLER: 130 SQ. FT.
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM

WAREHOUSE

OCCUPANCY CLASSIFICATION: EXTRA HAZARD, GROUP 1
DESIGN DENSITY: 0.30 GPM/SQ. FT.
HYDRAULIC REMOTE AREA (WET): 2,500 SQ. FT.
SPRINKLER K: 8.0
MAXIMUM COVERAGE/SPRINKLER: 100 SQ. FT.
OUTSIDE HOSE STREAM ALLOWANCE: 500 GPM

DESIGN CRITERIA:

THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.

- NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS, 2002 EDITION.
- NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2003 EDITION.
- NFPA 72, NATIONAL FIRE ALARM CODE, 2002 EDITION.
- NFPA 1, FIRE PREVENTION CODE, 2003 EDITION.
- INTERNATIONAL BUILDING CODE, 2003 EDITION.

FLOW TEST INFORMATION:

STATIC: 78 PSI
RESIDUAL: 70 PSI
FLOW: 1,190 GPM

DATE: 4-25-2013, 10:30 AM

LOCATION:
HYDRANTS ALONG SOUTH
CARGO DRIVE EAST OF
BUILDING SITE

GENERAL NOTES:

- FLOW TEST INFORMATION IS FOR REFERENCE ONLY. CONTRACTOR SHALL PERFORM FLOW TEST ON EXISTING FIRE MAIN. CONTRACTOR SHALL RECORD THE STATIC PRESSURE AT THE GAUGE HYDRANT FOR A MINIMUM OF 24-HOURS AT A MINIMUM 2-MINUTE INTERVAL. THE FLOW TEST RESULTS SHALL BE ADJUSTED FOR THE LOWEST STATIC PRESSURE THAT IS RECORDED OVER A 5-MINUTE PERIOD. CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS BASED ON FLOW TEST RESULTS.
- CONTRACTOR SHALL SLOPE ALL PIPING TO THE FIRE ENTRANCE RISER AS REQUIRED TO INSURE PROPER DRAINAGE. ADDITIONAL AUXILIARY DRAINS SHALL BE INSTALLED WHERE REQUIRED.
- COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY STRUCTURAL BEAM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE PROTECTION SYSTEM DESIGN AND SHOP DRAWINGS. CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE ABOVE-REFERENCED CODES.
- SPRINKLERED AREAS OF THE BUILDING SHALL BE IN ACCORDANCE WITH FIRE PROTECTION DATA ON THIS SHEET AND THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
- SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS.
- CONTRACTOR SHALL ANTICIPATE THE OFFSETTING OF SPRINKLER PIPING TO AVOID CONFLICTS WITH MECHANICAL AND ELECTRICAL CONDITIONS. PIPING MUST PASS ALL SPECIFIED LEAK INTEGRITY TESTS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AREA OF WORK THROUGHOUT INSTALLATION AND SHALL REPAIR OR REPLACE ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PATCH ALL HOLES IN AREAS AFFECTED BY THE CONSTRUCTION.
- ALL PIPE PENETRATIONS OF RATED FLOORS AND WALL MUST MEET UL RATED ASSEMBLIES. ALL PIPE PENETRATIONS THRU FLOORS MUST HAVE SLEEVES. THE SLEEVES SHALL EXTEND A MIN. OF 1" ABOVE THE FLOOR AND BE FIRE SEALED AT THE FLOOR.
- PIPING 8" AND GREATER IN DIAMETER SHALL BE SUPPORTED BY STEEL BEAMS AND JOISTS. PIPING SHALL NOT BE SUPPORTED FROM METAL ROOF DECK. PIPING MAY BE SUPPORTED FROM THE RIG (THICKENED) PORTION OF COMPOSITE DECK AND CONCRETE. PIPING SUPPORTED BY JOISTS SHALL BE WITHIN 6" OF JOIST PANEL POINTS. PIPING 8" DIAMETER AND GREATER AND RUNNING PARALLEL TO JOIST BEAMS SHALL BE SUPPORTED BY AT LEAST TWO (2) JOIST BEAMS. PIPES 8" DIAMETER AND GREATER SUPPORTED BY JOISTS SHALL HAVE SUPPORT POINTS AT 5 FEET O.C. MAX IN EACH DIRECTION.

DRAWING LIST

FP 0.1.1 FIRE PROTECTION DRAWING LIST, DESIGN CRITERIA, AND GENERAL NOTES
FP 2.1.1 FIRE PROTECTION AND FIRE ENTRANCE OPERATIONS LEVEL FLOOR PLAN
FP 2.1.2 FIRE PROTECTION OFFICE LEVEL FLOOR PLAN

SHEET NUMBERING SYSTEM

FP 1.1.1

SECTOR INDICATOR (OPTIONAL)
SEQUENCE NUMBER / FLOOR NUMBER
SHEET TYPE DESIGNATOR
DISCIPLINE DESIGNATOR

SHEET TYPE DESIGNATOR

#	DESCRIPTION
0	GENERAL
1	FIRE PROTECTION ZONES AND FIRE ENTRANCE PLAN
2	FIRE PROTECTION ZONES PLAN
3	SCHEMATIC DIAGRAMS
4	DETAILS OR DIAGRAM
5	EQUIPMENT SCHEDULES

FIRE PROTECTION LEGEND	
	SPRINKLER PIPING
	FIRE HOSE VALVE CABINET
	WET PIPE SYSTEM RISER
	PRE-ACTION SYSTEM RISER
	DRY PIPE SYSTEM RISER
	CAP ON END OF PIPING
	PIPING DROP IN DIRECTION OF FLOW
	PIPING RISE IN DIRECTION OF FLOW
	CENTERLINE
	GALLONS PER MINUTE
	DUCTILE IRON
	OUTSIDE SCREW & YOKE
	FIRE HOSE VALVE
	FLOOR CONTROL VALVE
	ESFR
	HYDRAULIC CALCULATION NODE
	HYDRAULIC CALCULATION PIPE
	UPRIGHT SPRINKLER
	PENDENT SPRINKLER
	SHUT OFF VALVE
	INDICATOR VALVE w/ TAMPER SWITCH
	CHECK VALVE WITH FLOW DIRECTION
	SUPERVISED VALVE
	FIRE ZONE BORDER
	CONNECT TO EXISTING
	WALL MOUNTED INDICATOR VALVE w/ TAMPER SWITCH



CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson
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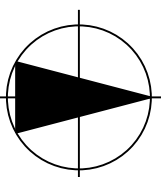
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NORTH



NO. DATE BY REVISION

AIR CARGO BUILDING C

FIRE PROTECTION DRAWING LIST, DESIGN CRITERIA AND GENERAL NOTES

WBS NUMBER:

D.07.55.009

FC NUMBER:

FC-6006007929-A

A/E PROJECT NUMBER:

HI-0730621

DRAWN BY:

K. MILNER

DESIGNED BY:

J. CRAYTOR

CHECKED BY:

J. CRAYTOR

APPROVED BY:

J. CRAYTOR

DATE:

11/25/2014

SCALE:

AS NOTED

SHEET NO.:

FP 0.1.1

SEAL



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Hartsfield-Jackson
Atlanta International Airport



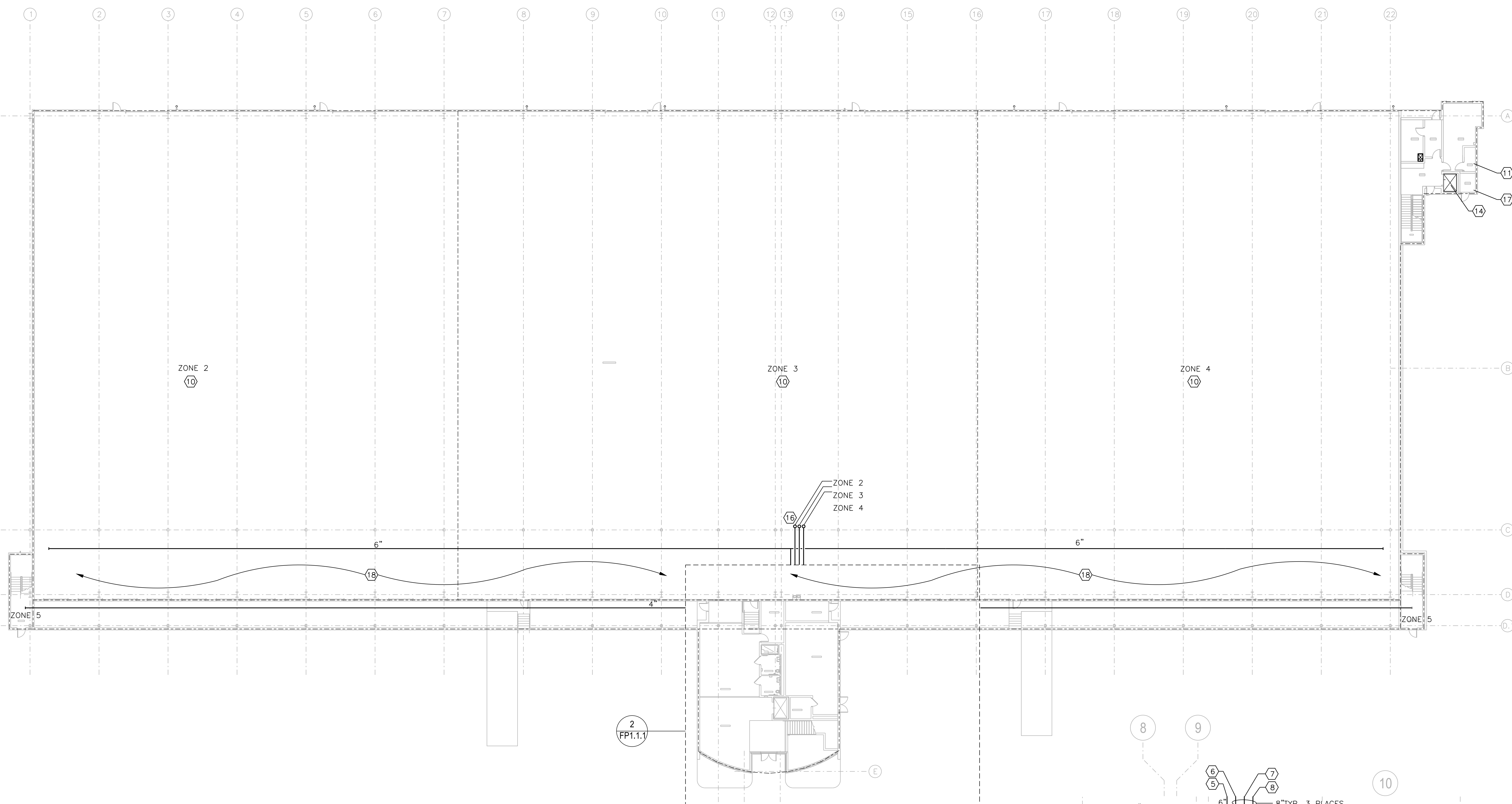
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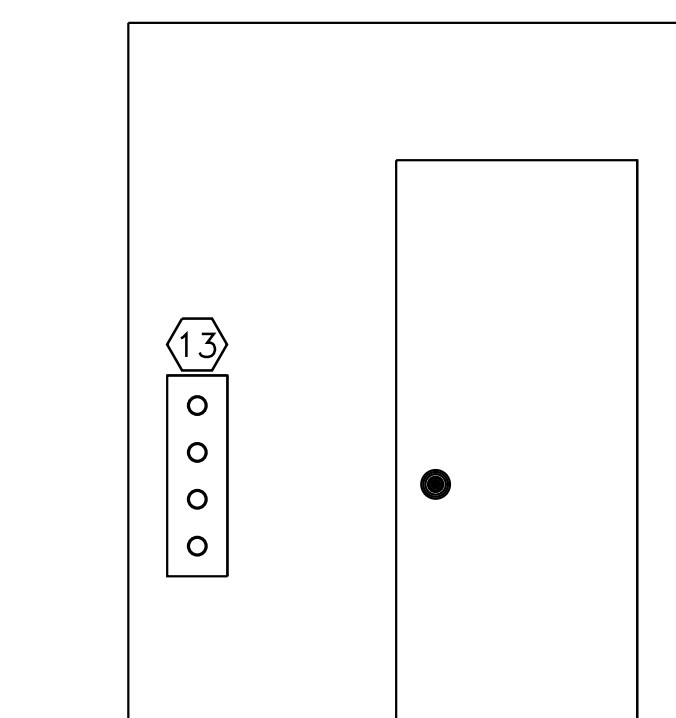
AIR CARGO BUILDING C, 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014



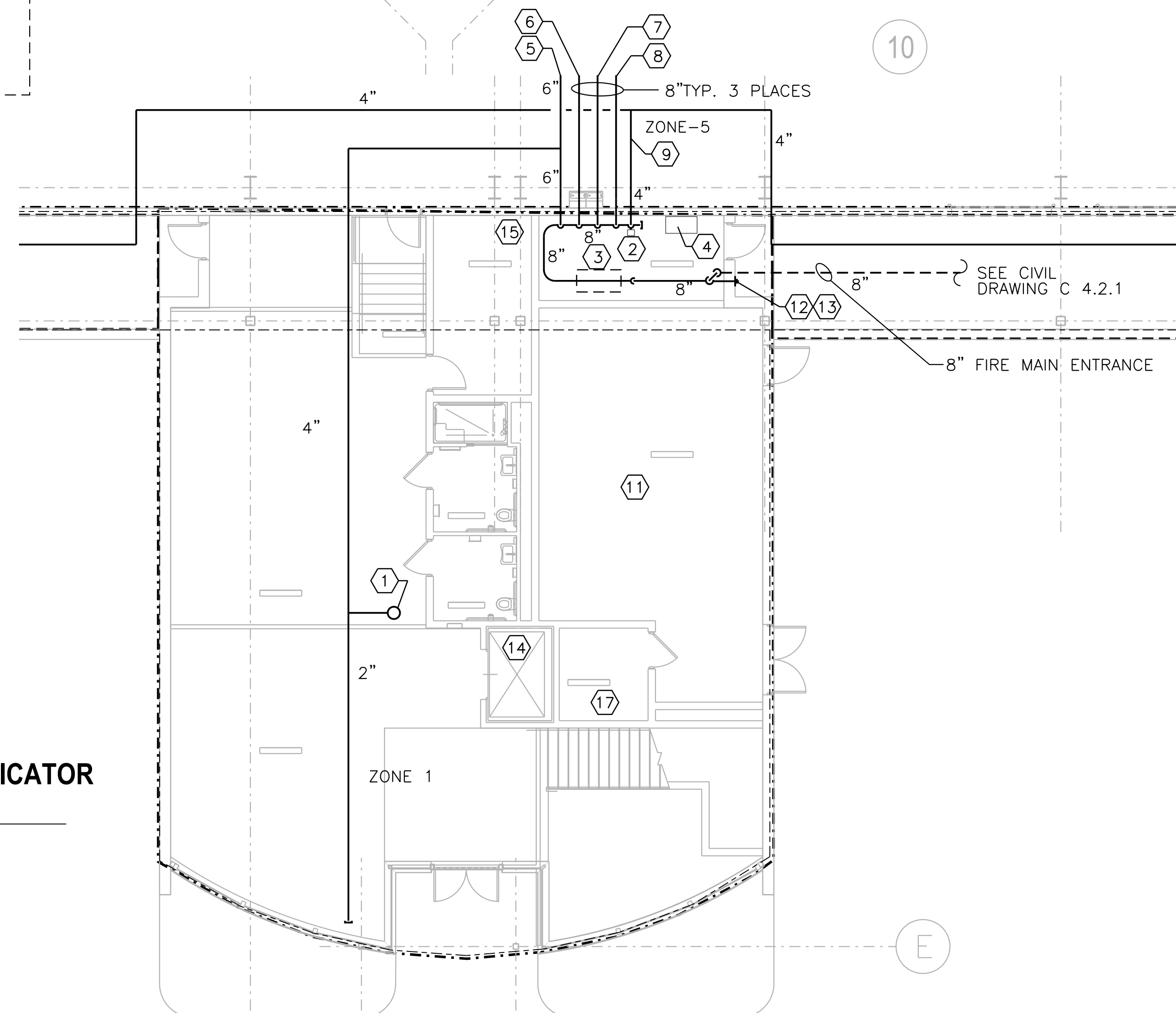
1 FIRE PROTECTION OVERALL PLAN - OPERATIONS LEVEL
SCALE: 1/16"=1'-0"

KEYED NOTES

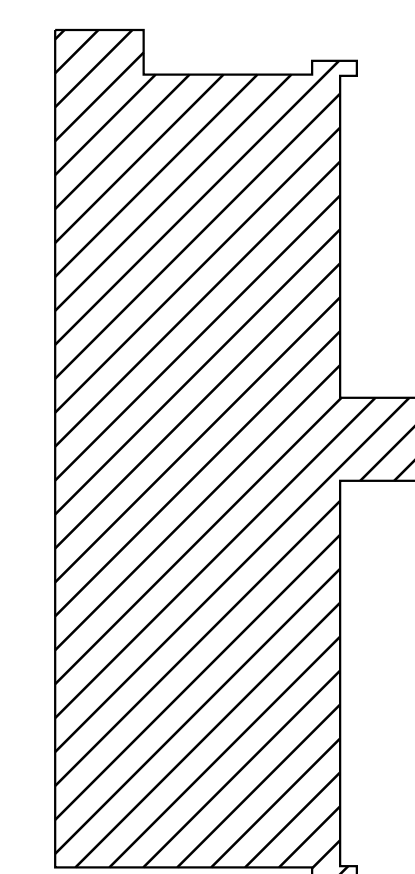
- 1 4" MAIN UP
2 ZONE 5 DRY PIPE RISER MOUNTED AIR COMPRESSOR
3 POTENTIAL FIRE PUMP LOCATION
4 POTENTIAL FIRE PUMP CONTROLLER LOCATION
5 ZONE 1 - WET (OFFICES)
6 ZONE 2 - WET (WAREHOUSE)
7 ZONE 3 - WET (WAREHOUSE)
8 ZONE 4 - WET (WAREHOUSE)
9 ZONE 5 - DRY (LOADING DOCK)
10 EXTRA HAZARD GROUP 1 0.3 GPM/SFT. OVER 2500/SFT. MAX AREA/SPRINKLER 100 FT.
- 11 NO SPRINKLERS IN THIS AREA PER NFPA 13-2010 8.15.10.3. ROOM HAS 2-HOUR FIRE RATED ENCLOSURE
12 SEE DETAIL 3/FP1.1.1
13 FIRE DEPARTMENT CONNECTION 4 X 2 1/2" X 6"
14 PROVIDE A SIDEWALL SPRAY SPRINKLER AT THE BOTTOM OF THE ELEVATOR HOISTWAY PER NFPA 13-2010, 8.15.5
15 8" RISER MANIFOLD, SEE DETAIL 1/FP0.1.1
16 8" MAINS UP TO BOTTOM OF STRUCTURE
17 PROVIDE A WATERFLOW SWITCH WITHOUT A TIME DELAY TO SHUTDOWN ELECTRICAL POWER UPON APPLICATION OF WATER IN THE ELEVATOR MACHINE ROOM PER NFPA 13-2010, 8.15.5 AND ASME 17.1-2010, 2.8.
18 SPRINKLERS SHALL BE INSTALLED UNDER THE MEZZANINE LOADING AREA TO PROVIDE PROPER COVERAGE, PROTECTION, AND COORDINATION WITH OVERHEAD DOORS PER NFPA 13-2010, CHAPTER 8



3 FDC AND WALL MOUNTED INDICATOR VALVE ELEVATION DETAIL
NO SCALE



2 FIRE PROTECTION PARTIAL PLAN
SCALE: 1/8"=1'-0"



KEY MAP
NORTH

NO. DATE BY REVISION

AIR CARGO BUILDING C

FIRE PROTECTION
AND FIRE ENTRANCE
OPERATIONS LEVEL PLANS

WBS NUMBER: D.07.55.009
FC NUMBER: FC-6006007929-A
A/E PROJECT NUMBER: HII-0730621

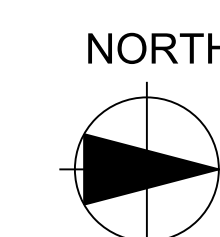
DRAWN BY: K. MILNER
DESIGNED BY: J. CRAYTOR
CHECKED BY: J. PETERKIN
APPROVED BY: J. CRAYTOR

DATE: 11/25/2014

SCALE: AS NOTED

SHEET NO.

FP 2.1.1



NOT RELEASED FOR CONSTRUCTION



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Atlanta International Airport



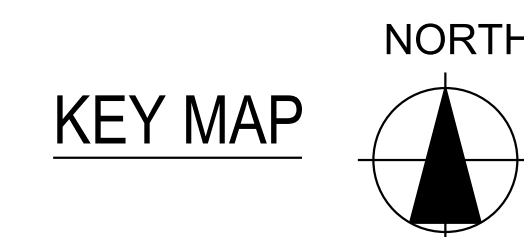
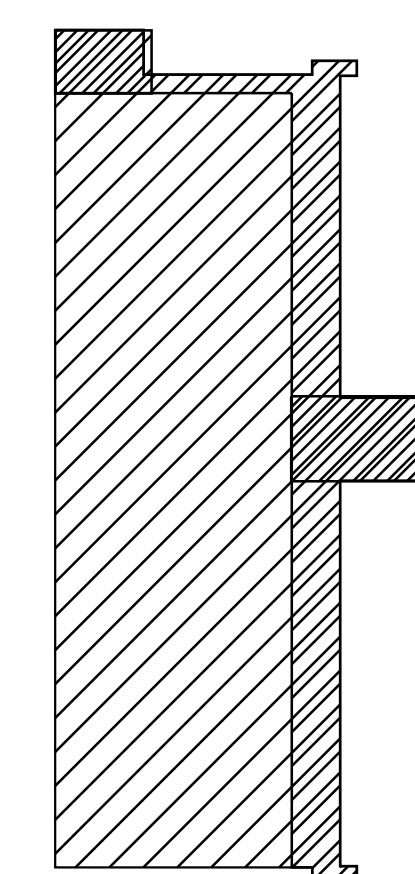
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AIR CARGO BUILDING C, 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014



KEY MAP

NO. DATE BY REVISION

AIR CARGO BUILDING C

FIRE PROTECTION
OFFICE LEVEL PLAN

WBS NUMBER:

D.07.55.009

DRAWN BY:

K. MILNER

FC NUMBER:

FC-6006007529-A

DESIGNED BY:

J. CRAYTOR

A/E PROJECT NUMBER:

HII-0730621

CHECKED BY:

J. PETERKIN

APPROVED BY:

J. CRAYTOR

DATE:

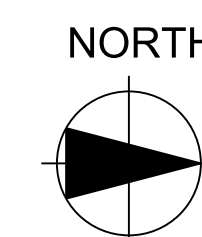
11/25/2014

SCALE:

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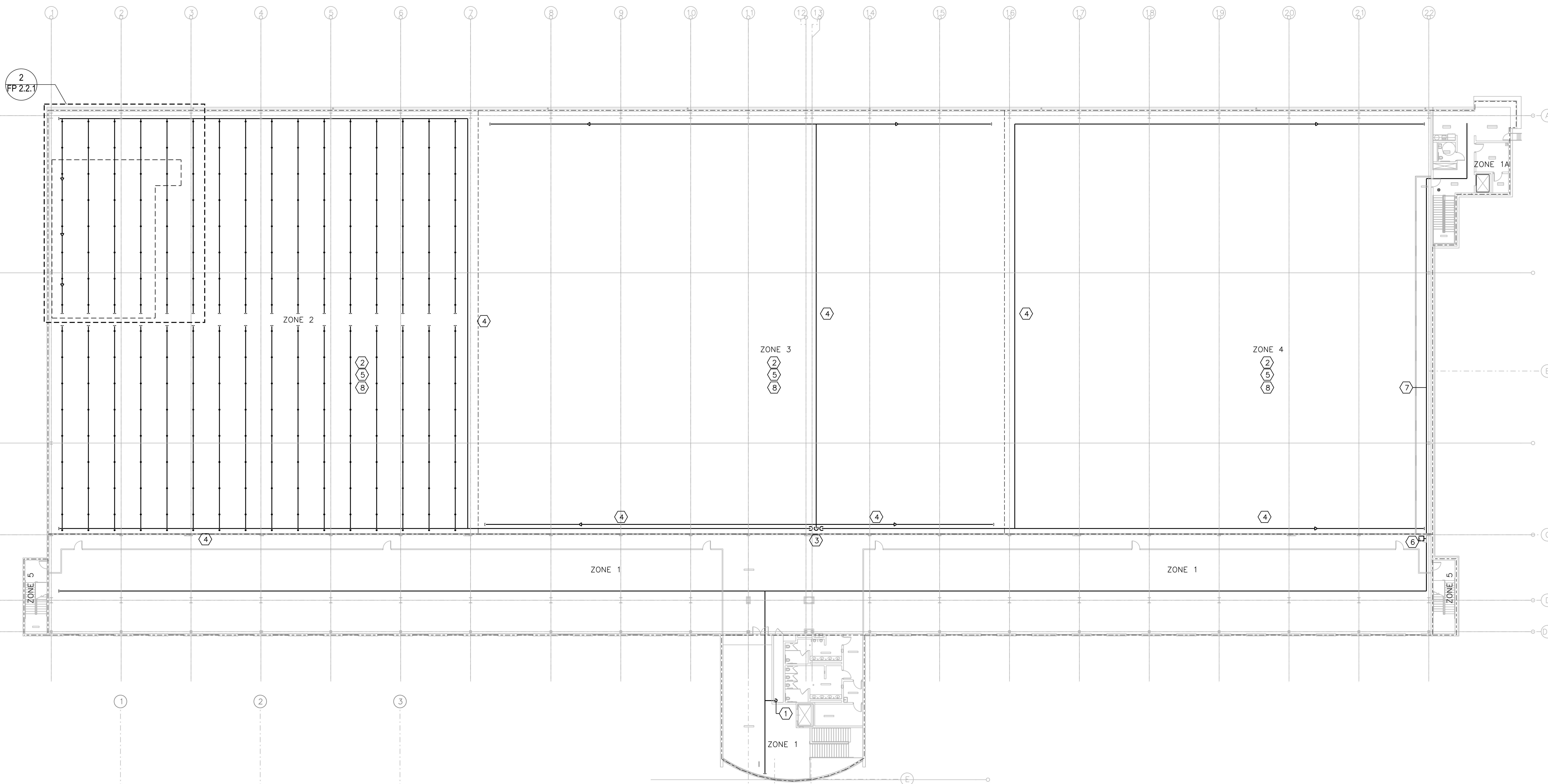
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FP 2.2.1



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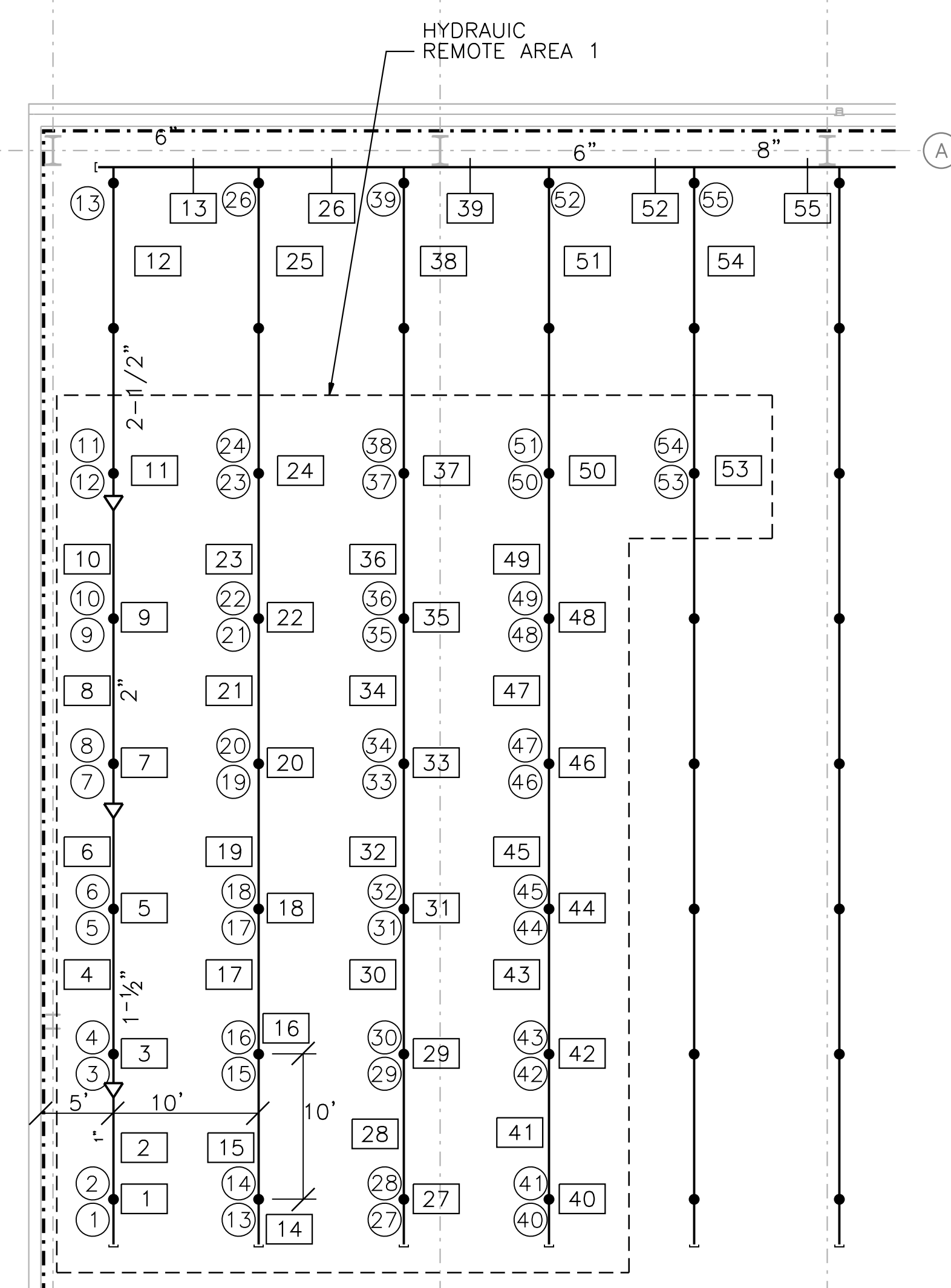
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1 FIRE PROTECTION OVERALL PLAN - OFFICE LEVEL
SCALE: 1/16"=1'-0"

KEYED NOTES

- ① 4" MAIN FROM BELOW
- ② EXTRA HAZARD GROUP 1
0.3 GPM/SFT. OVER 2500/SFT.
MAX AREA/SPRINKLER 100 FT.
- ③ 8" MAINS DOWN TO OPERATIONS LEVEL
- ④ COORDINATE PIPE HANGERS WITH STRUCTURAL
PRIOR TO HANGING ANY PIPE. STRUCTURAL
ENGINEER TO FIELD SURVEY INSTALLATION
PRIOR TO FILLING SYSTEM WITH WATER
- ⑤ SYSTEM MAY BE LOOPED OR GRIDDED PER NFPA 13
- ⑥ FLOW SWITCH FOR ZONE 1A
- ⑦ SPRINKLER LINE TO ZONE 1A
- ⑧ SYSTEM MAY BE DESIGNED AS A LOOPED OR GRIDDED SYSTEM.
SPRINKLER CROSS MAINS SHALL BE TIGHT TO STRUCTURAL
MEMBER, APPROXIMATELY 31'-0" A.F.F. BRANCH LINES SHALL
BE GREATER THAN 32'-0" A.F.F AND SLOPED FOR DRAINAGE.
UPRIGHT SPRINKLERS SHALL BE ON SPRIGS PER NFPA 13.
COORDINATE SPRINKLERS WITH ELECTRICAL LIGHTING AND
MECHANICAL SYSTEM.



2 REMOTE AREA PARTIAL PLAN
SCALE: 1/8"=1'-0"